



State of Utah
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DIVISION OF OIL, GAS AND MINING

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FACSIMILE COVER SHEET

DATE: MARCH 11, 1997

NUMBER OF PAGES INCLUDING THIS COVER SHEET: 8

TO: JEFFREY PARSHLEY
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FOR CONTINENTAL LIME INC

FAX NUMBER: _____

FROM: TONY GALLEGOS PHONE

Minerals Reclamation and Development Program

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SUBJECT: M/027/006 CRICKET MOUNTAIN QUARRY

REMARKS: HERE ARE THE PAGES FROM SECTION 5-RECLAMATION
SURETY FROM THE APRIL 14, 1992 REVISED MUD PLAY,
AND FIGURE 4.0-2 ~~THE~~ FINAL RECLAMATION
TREATMENTS MAP.

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Minerals Reclamation and Development Program

PHONE: (801) 538-5291

m/027/006

REVISED MINING AND RECLAMATION PLAN

FOR

CONTINENTAL LIME INC.

CRICKET MOUNTAIN QUARRY
Millard County, Utah

M/027/006

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'APR 14 1992

**DIVISION OF
OIL GAS & MINING**

February 1992

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SECTION 5

RECLAMATION SURETY

5.1 Disturbed Acreage and Final Reclaimed Acreage

Table 5.1-1 shows the total disturbed acres at the end of mining (late 1999) and the number of acres that will be reclaimed. The difference (26 acres) between the disturbed acres and the reclaimed acres is a result of variances for the haul road to the processing plant and the working faces within the quarry. Working faces represent about 10% of the total disturbed quarry area.

Table 5.1-1 Disturbed Acres vs Reclaimed Acres

<u>Area</u>	<u>Disturbed Acres @ End of Mining</u>	<u>Reclaimed Acres @ End of Mining</u>
Crushing, Screening and Kiln Rock Stockpile Area	17.0	17.0
Access Road to Explosives Magazines	0.7	0.7
Rejects Stockpile	27.3	27.3
Cricket Mountain Quarry	77.7	70.0
"West" Waste Dump	20.7	20.7
"North" Waste Dump	1.7	1.3
Unstable Highwall Area	2.0	2.0
Topsoil Stockpiles	2.9	2.9
Temporary Development & Access Roads	1.0	1.0
Haul Road from Quarry to Intersection w/ County Road	<u>17.9</u>	<u>0.0</u>
TOTAL	168.9	142.9

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5.2 Estimate of Reclamation Cost

Description	Quantity	Unit	\$/Unit	Total Cost (\$)
Mobilization/Demobilization	Lump Sum			6,000
Crusher Site Reclamation				
Demolitions	Lump Sum			5,000
Remove Trash	17	Acres	100.00	1,700
Regrade and Contour	17	Acres	430.00	7,310
Cover with 4" Topsoil	9,400	CY	0.65	6,110
Reseed, Fertilize & Mulch	17	Acres	500.00	<u>8,500</u>
Subtotal				28,620
"Rejects" Stockpile Reclamation				
Remove Trash	27.3	Acres	50.00	1,370
Grade to 3H:1V Slope	16,600	CY	0.20	3,310
Cover with 5" Topsoil	18,400	CY	0.65	11,960
Reseed, Fertilize & Mulch	27.3	Acres	500.00	<u>13,650</u>
Subtotal				30,290
"West" Waste Dump Reclamation				
Remove Trash	20.7	Acres	50.00	1,040
Grade to 3H:1V Slope	66,700	CY	0.30	20,010
Cover with 6" LS fines	16,700	CY	0.65	10,860
Cover with 6" of Topsoil	16,700	CY	0.65	10,860
Reseed, Fertilize & Mulch	20.7	Acres	500.00	<u>10,350</u>
Subtotal				53,120
"North" Waste Dump Reclamation				
Remove Trash	1.3	Acres	50.00	65
Grade to 3H:1V Slope	715	CY	0.30	215
Cover with 6" LS fines	1,000	CY	0.65	650
Cover with 6" of Topsoil	1,000	CY	0.65	650
Reseed, Fertilize & Mulch	1.3	Acres	500.00	<u>650</u>
Subtotal				2,230
Cricket Mountain Quarry Reclamation				
Remove Trash	70.0	Acres	50.00	3,500
Dozer Rip Benches to 12" Depth	112,910	CY	0.26	29,360
Cover with 6" LS fines	56,455	CY	0.65	36,695
Reseed, Fertilize & Mulch	70.0	Acres	500.00	35,000
Construct Berms @ roads to benches	700.0	LF	3.10	<u>2,150</u>
Subtotal				106,705

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Description	Quantity	Unit	\$/Unit	Total Cost(\$)
Unstable Highwall Area				
Grade Unstable Slope to 2H:1V	8,400	CY	1.50	12,600
Cover with 6" LS fines	1,600	CY	0.65	1,040
Reseed, Fertilize & Mulch	2.0	Acres	500.00	<u>1,000</u>
Subtotal				14,640
Explosives Magazines & Road				
Dozer Rip to 12" Depth & Regrade	1,130	CY	0.26	290
Reseed, Fertilize & Mulch	0.7	Acres	500.00	<u>350</u>
Subtotal				640
Topsoil Stockpiles & Misc. Development Roads				
Dozer Rip to 12" Depth & Regrade	6,300	CY	0.26	1,640
Reseed, Fertilize & Mulch	3.9	Acres	500.00	<u>1,450</u>
Subtotal				6,090
Total				245,335
Add Contingency (10%)				<u>24,530</u>
TOTAL RECLAMATION COST (1992 Dollars)				269,865
TOTAL RECLAMATION COST (1999 Dollars @ 1.27% Annual Inflation Rate)				287,400

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RECLAMATION TREATMENT PLAN

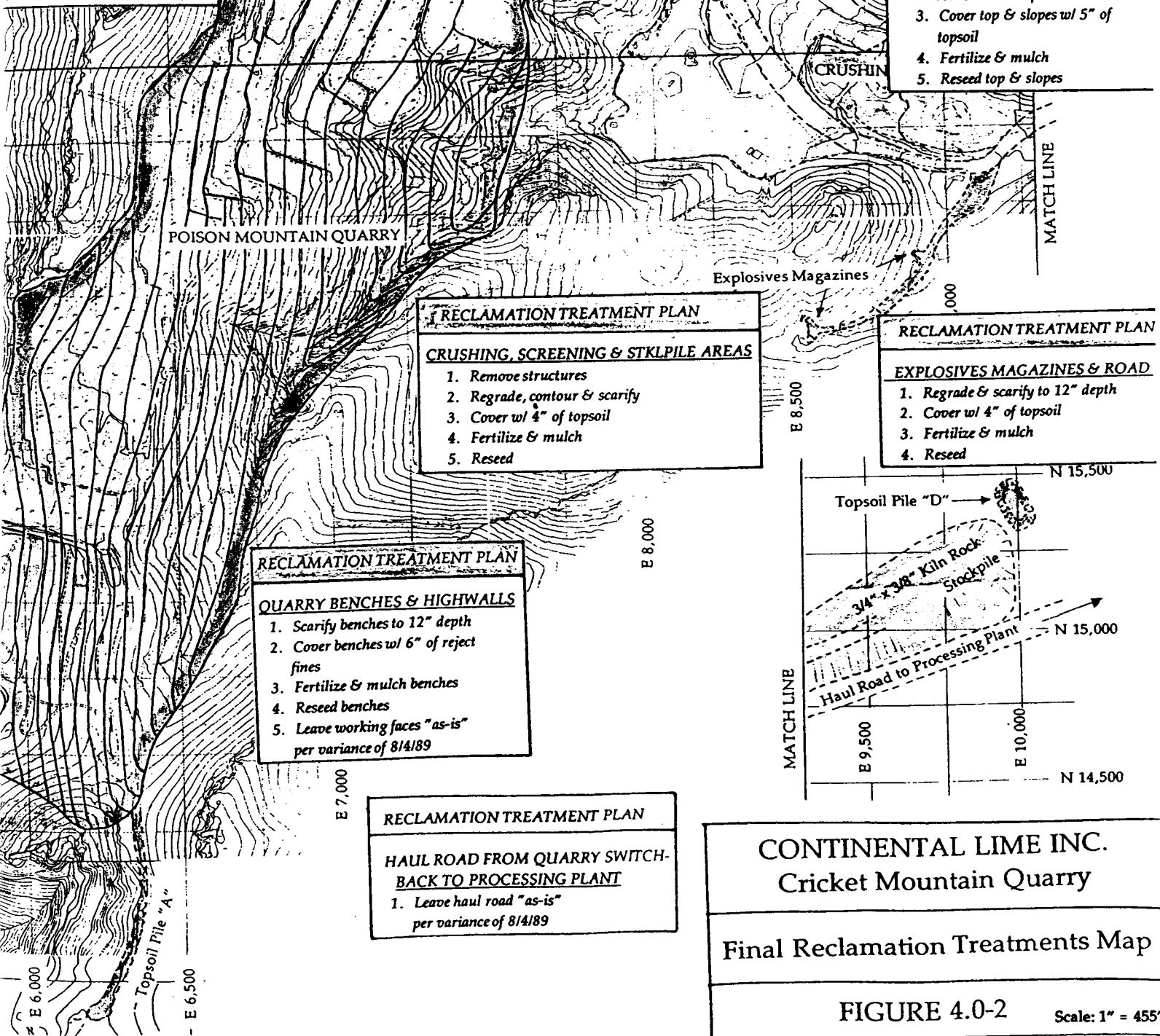
NORTH WASTE DUMP

1. Regrade northeast slopes of waste dump to 3H:1V
2. Cover top & NE slope w/ 6" of reject fines
3. Cover top & NE slope w/ 6" of topsoil
4. Fertilize & mulch top & NE slope
5. Reseed top & NE slope
6. Leave north slope "as-is"

RECLAMATION TREATMENT PLAN

UNSTABLE HIGHWALL AREA

1. Regrade unstable area to 1:1V slope
2. Cover w/ 6" of reject fines
3. Fertilize & mulch
4. Reseed



RECLAMATION TREATMENT PLAN

CRUSHING, SCREENING & STOCKPILE AREAS

1. Remove structures
2. Regrade, contour & scarify
3. Cover w/ 4" of topsoil
4. Fertilize & mulch
5. Reseed

RECLAMATION TREATMENT PLAN

QUARRY BENCHES & HIGHWALLS

1. Scarify benches to 12" depth
2. Cover benches w/ 6" of reject fines
3. Fertilize & mulch benches
4. Reseed benches
5. Leave working faces "as-is" per variance of 8/4/89

RECLAMATION TREATMENT PLAN

HAUL ROAD FROM QUARRY SWITCH-BACK TO PROCESSING PLANT

1. Leave haul road "as-is" per variance of 8/4/89

RECLAMATION TREATMENT PLAN

"REJECTS" STOCKPILE

1. Regrade north slope to 3H:1V
2. Scarify packed areas & haul roads to 12" depth
3. Cover top & slopes w/ 5" of topsoil
4. Fertilize & mulch
5. Reseed top & slopes

RECLAMATION TREATMENT PLAN

EXPLOSIVES MAGAZINES & ROAD

1. Regrade & scarify to 12" depth
2. Cover w/ 4" of topsoil
3. Fertilize & mulch
4. Reseed

CONTINENTAL LIME INC.
Cricket Mountain Quarry

Final Reclamation Treatments Map

FIGURE 4.0-2

Scale: 1" = 455'

RECLAMATION TREATMENT PLAN

NORTH TE DUMP

1. Regrade northeast slopes of waste dump to 3H:1V
2. Cover top & NE slope w/ 6" of reject fines
3. Cover top & NE slope w/ 6" of topsoil
4. Fertilize & mulch top & NE slope
5. Reseed top & NE slope
6. Leave north slope "as-is"

RECLAMATION TREATMENT PLAN

UNSTABLE HIGHWALL AREA

1. Regrade unstable area to 2H:1V slope
2. Cover w/ 6" of reject fines
3. Fertilize & mulch
4. Reseed

SECTION 25, T21S, R10W, SLB&M

SECTION 36, T21S, R10W, SLB&M

RECLAMATION TREATMENT PLAN

TOPSOIL STOCKPILES & MISC. DEVELOPMENT ROADS

1. Regrade & scarify to 12" depth
2. Fertilize & mulch
3. Reseed

Topsoil Pile "B"

POISON MOUNTAIN QUARRY

Diversion Ditch

"WEST" WASTE DUMP

Final Slope = 3H:1V

RECLAMATION TREATMENT PLAN

"WEST" WASTE DUMP

1. Regrade slopes to 3H:1V
2. Cover top & slopes w/ 6" of "reject" fines
3. Cover top & slopes w/ 6" of topsoil
4. Fertilize & mulch
5. Reseed

RECL

CRUSH

1. R
2. R
3. C
4. F
5. R

RECLAMATION TREATMENT PLAN

QUARRY BENCHES & HIGHW

1. Scarify benches to 12" depth
2. Cover benches w/ 6" of reject fines
3. Fertilize & mulch benches
4. Reseed benches
5. Leave working faces "as-is" per variance of 8/4/89

E 7,000

RECLAMATIC

HAUL ROAD BACK TO PI

1. Leave haul per varianc

E 4,000

E 4,500

E 5,000

E 5,500

E 6,000

E 6,500

Topsoil Pile "A"